

Amendments to the Claims:

This listing of the claims will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) A method for purifying fluid within a reflection optical switch system comprising:

placing gettering structures within a chamber within the reflection optical switch system, the gettering structures including heating components which when actuated attract impurities, wherein the gettering structures are placed within the chamber in such a way that at least some of the structures can be optically detected from outside the chamber; and,

turning on the heating components within the gettering structures to getter out impurities from fluid within the chamber.

2. (Original) A method as in claim 1 wherein placing gettering structures includes placing heating components around filament holes through which vapor enters the chamber from a reservoir.

3. (Original) A method as in claim 1 wherein placing gettering structures includes placing heating components on pillars within filament holes through which vapor enters the chamber from a reservoir.

4. (Canceled)

5. (Currently Amended) A method as in claim 1 wherein placing gettering structures includes placing a plurality of ~~coupons~~rectangular-shaped structures ~~that are optically accessible from outside the chamber~~, the plurality of ~~coupons~~rectangular-shaped structures including ~~coupons~~rectangular-shaped structures of different sizes and composed of different materials so as to target different materials for gettering.

6. (Original) A method as in claim 1 wherein placing gettering structures includes placing structures that are used to generate a voltage differential across a gap of predetermined size.

7. (Currently Amended) A reflection optical switch system comprising:
a chamber that stores fluid; and,
gettering structures within the chamber, the gettering structures including heating components which, when actuated, ~~getter absorb~~ impurities from the fluid stored in the chamber, wherein the gettering structures are placed within the chamber in such a way that at least some of the structures can be optically detected from outside the chamber.

8. (Original) A reflection optical switch system as in claim 7 wherein the gettering structures include heating components placed around filament holes through which vapor enters the chamber from a reservoir.

9. (Original) A reflection optical switch system as in claim 7 wherein the gettering structures include heating components placed on pillars within filament holes through which vapor enters the chamber from a reservoir.

10. (Canceled)

11. (Currently Amended) A reflection optical switch system as in claim 7 wherein the gettering structures include a plurality of ~~coupons~~rectangular-shaped structures ~~that are optically accessible from outside the chamber~~, the plurality of ~~coupons~~rectangular-shaped structures including ~~coupons~~rectangular-shaped structures of different sizes and composed of different materials so as to target different materials for gettering.

12. (Original) A reflection optical switch system as in claim 7 wherein the gettering structures include structures that are used to generate a voltage differential across a gap of predetermined size.

13. (Currently Amended) A reflection optical switch system comprising:
a chamber that stores fluid; and,
gettering structures within the chamber, the gettering structures
including heating components which, when actuated, absorb impurities from
the fluid stored in the chamber, as in claim 7 wherein the gettering structures
include bridge structures.

14. (Currently Amended) A reflection optical switch system comprising:
chamber means for storing fluid; and,
gettering means, located within the chamber, for heating and gettering
the fluid stored in the chamber means, wherein the gettering means are placed
within the chamber means in such a way that at least some of the structures can
be optically detected from outside the chamber means.

15. (Original) A reflection optical switch system as in claim 14 wherein
the gettering means includes heating components placed around filament holes
through which vapor enters the chamber from a reservoir.

16. (Original) A reflection optical switch system as in claim 14 wherein
the gettering means includes heating components placed on pillars within
filament holes through which vapor enters the chamber from a reservoir.

17. (Canceled)

18. (Currently Amended) A reflection optical switch system as in claim 14
wherein the gettering means includes a plurality of ~~cou~~rectangular-shaped
~~structures that are optically accessible from outside the chamber,~~ the plurality of
~~cou~~rectangular-shaped structures including ~~cou~~rectangular-shaped

structures of different sizes and composed of different materials so as to target different materials for gettering.

19. (Currently Amended) A reflection optical switch system comprising:
chamber means for storing fluid; and,
gettering means, located within the chamber, for heating and gettering
the fluid stored in the chamber means, as in claim 14 wherein the gettering means include bridge structures.

20. (Original) A reflection optical switch system as in claim 14 wherein the gettering means includes structures that are used to generate a voltage differential across a gap of predetermined size.